

Application of SOUTHERN CALIFORNIA GAS)
COMPANY for authority to update its gas revenue)
requirement and base rates)
effective January 1, 2019 (U 904-G))

Application No. 17-10-____

Exhibit No.: (SCG-21-WP)

WORKPAPERS TO
PREPARED DIRECT TESTIMONY
OF LISA M. LARROQUE ALEXANDER
ON BEHALF OF SOUTHERN CALIFORNIA GAS COMPANY

BEFORE THE PUBLIC UTILITIES COMMISSION
OF THE STATE OF CALIFORNIA

OCTOBER 2017



2019 General Rate Case - APP
INDEX OF WORKPAPERS

Exhibit SCG-21-WP - CS - TECHNOLOGIES, POLICIES & SOLUTIONS

DOCUMENT	PAGE
Overall Summary For Exhibit No. SCG-21-WP	1
<i>Summary of Non-Shared Services Workpapers</i>	2
Category: A. Research, Development and Demonstration	3
..2RD001.000 - RESEARCH DEVELOPMENT AND DEMONSTRATION (RD&D) TECHNOLOGY DEV	4
Category: B. Policy and Environmental Solutions NSS	11
..2RD002.000 - POLICY & ENVIRONMENTAL SOLUTIONS NSS	12
<i>Summary of Shared Services Workpapers</i>	18
Category: A. Policy and Environmental Solutions USS	19
..2200-2288.000 - ENVIRONMENTAL AFFAIRS	20
..2200-2396.000 - ENERGY & ENVIRONMENTAL POLICY	27
..2200-2505.000 - PLANNING & LEGISLATIVE ANALYSIS	36
Category: B. Business Strategy and Development	43
..2200-2229.000 - BUSINESS STRATEGY AND DEVELOPMENT	44
<i>Appendix A: List of Non-Shared Cost Centers</i>	54

Overall Summary For Exhibit No. SCG-21-WP

Area:	CS - TECHNOLOGIES, POLICIES & SOLUTIONS
Witness:	Lisa M. Larroque Alexander

Description	In 2016 \$ (000) Incurred Costs			
	Adjusted-Recorded	Adjusted-Forecast		
	2016	2017	2018	2019
Non-Shared Services	11,410	14,972	12,895	15,226
Shared Services	3,216	3,315	3,794	4,008
Total	14,626	18,287	16,689	19,234

Note: Totals may include rounding differences.

Southern California Gas Company
 2019 GRC - APP
 Non-Shared Service Workpapers

Area: CS - TECHNOLOGIES, POLICIES & SOLUTIONS
 Witness: Lisa M. Larroque Alexander

Summary of Non-Shared Services Workpapers:

Description	In 2016 \$ (000) Incurred Costs			
	Adjusted-Recorded	Adjusted-Forecast		
		2016	2017	2018
A. Research, Development and Demonstration	10,643	14,205	11,998	14,329
B. Policy and Environmental Solutions NSS	767	767	897	897
Total	11,410	14,972	12,895	15,226

Note: Totals may include rounding differences.

Southern California Gas Company
2019 GRC - APP
Non-Shared Service Workpapers

Area: CS - TECHNOLOGIES, POLICIES & SOLUTIONS
 Witness: Lisa M. Larroque Alexander
 Category: A. Research, Development and Demonstration
 Workpaper: 2RD001.000

Summary for Category: A. Research, Development and Demonstration

	In 2016\$ (000) Incurred Costs			
	Adjusted-Recorded	Adjusted-Forecast		
	2016	2017	2018	2019
Labor	2,119	2,086	2,136	2,136
Non-Labor	8,524	12,119	9,862	12,193
NSE	0	0	0	0
Total	10,643	14,205	11,998	14,329
FTE	20.6	21.1	21.6	21.6

Workpapers belonging to this Category:

2RD001.000 Research Development and Demonstration (RD&D) Technology Development

Labor	2,119	2,086	2,136	2,136
Non-Labor	8,524	12,119	9,862	12,193
NSE	0	0	0	0
Total	10,643	14,205	11,998	14,329
FTE	20.6	21.1	21.6	21.6

Note: Totals may include rounding differences.

Beginning of Workpaper
2RD001.000 - Research Development and Demonstration (RD&D) Technology
Development

Southern California Gas Company
2019 GRC - APP
Non-Shared Service Workpapers

Area: CS - TECHNOLOGIES, POLICIES & SOLUTIONS
 Witness: Lisa M. Larroque Alexander
 Category: A. Research, Development and Demonstration
 Category-Sub: 1. Research, Development and Demonstration
 Workpaper: 2RD001.000 - Research Development and Demonstration (RD&D) Technology Development

Activity Description:

The Research Development & Demonstration (RD&D) organization is focused on identifying, assessing, developing, demonstrating and deploying emerging new technologies of significant potential value to customers and utility operations. The RD&D program budget is tracked in a one-way balancing account treatment. SoCalGas will propose in its next General Rate Case (GRC) proceeding to return the unspent funds in rates to customers. Overspent funds may not be recovered from ratepayers and shareholders will absorb the balance in the event actual expenses exceed authorized levels.

Forecast Explanations:

Labor - Zero-Based

The RD&D program staffing requirements and related costs were forecasted using a zero-based methodology. A technology needs assessment was performed to determine activity levels needed in the various RD&D areas employing historical project activity and labor costs to determine staffing and costs necessary for the project and technology assessment activity planned for the forecast period.

Non-Labor - Zero-Based

Non-labor, which is predominantly RD&D project expense, was forecasted on a zero-based method using a technology needs assessment to develop planned project activity as described in direct testimony and using historical averages to estimate projects costs. This approach allows for evolving RD&D needs based on technology progress, changes in public policies and goals, and changes in customer needs. The present budget forecast reflects increased activity in the operations area as well as a number of areas related to criteria pollutions reduction and carbon reduction.

NSE - Zero-Based

Not Applicable

Summary of Results:

		In 2016\$ (000) Incurred Costs								
		Adjusted-Recorded					Adjusted-Forecast			
Years		2012	2013	2014	2015	2016	2017	2018	2019	
Labor		1,549	1,292	1,553	2,006	2,119	2,086	2,136	2,136	
Non-Labor		6,996	7,032	7,145	11,213	8,524	12,119	9,862	12,193	
NSE		0	0	0	0	0	0	0	0	
Total		8,545	8,324	8,697	13,219	10,643	14,205	11,998	14,329	
FTE		13.7	11.3	14.2	19.4	20.6	21.1	21.6	21.6	

Note: Totals may include rounding differences.

Southern California Gas Company
2019 GRC - APP
Non-Shared Service Workpapers

Area: CS - TECHNOLOGIES, POLICIES & SOLUTIONS
 Witness: Lisa M. Larroque Alexander
 Category: A. Research, Development and Demonstration
 Category-Sub: 1. Research, Development and Demonstration
 Workpaper: 2RD001.000 - Research Development and Demonstration (RD&D) Technology Development

Summary of Adjustments to Forecast:

In 2016 \$(000) Incurred Costs										
Forecast Method		Base Forecast			Forecast Adjustments			Adjusted-Forecast		
Years		2017	2018	2019	2017	2018	2019	2017	2018	2019
Labor	Zero-Based	0	0	0	2,086	2,136	2,136	2,086	2,136	2,136
Non-Labor	Zero-Based	0	0	0	12,119	9,862	12,193	12,119	9,862	12,193
NSE	Zero-Based	0	0	0	0	0	0	0	0	0
Total		0	0	0	14,205	11,998	14,329	14,205	11,998	14,329
FTE	Zero-Based	0.0	0.0	0.0	21.1	21.6	21.6	21.1	21.6	21.6

Forecast Adjustment Details:

<u>Year</u>	<u>Adj Group</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>Total</u>	<u>FTE</u>	<u>Adj Type</u>	<u>RefID</u>	
2017	Other	2,086	12,119	0	14,205	21.1	1-Sided Adj	SYCHANG20161203233538103	
Explanation:		Based on Technology Needs Assessment Summary conducted by the portfolio managers.							
2017 Total		2,086	12,119	0	14,205	21.1			
2018	Other	2,136	9,862	0	11,998	21.6	1-Sided Adj	SYCHANG20161203233603260	
Explanation:		Based on Technology Needs Assessment Summary conducted by the portfolio managers.							
2018 Total		2,136	9,862	0	11,998	21.6			
2019	Other	2,136	12,193	0	14,329	21.6	1-Sided Adj	SYCHANG20161203233620103	
Explanation:		Based on Technology Needs Assessment Summary conducted by the portfolio managers.							
2019 Total		2,136	12,193	0	14,329	21.6			

Note: Totals may include rounding differences.

Southern California Gas Company
2019 GRC - APP
Non-Shared Service Workpapers

Area: CS - TECHNOLOGIES, POLICIES & SOLUTIONS
 Witness: Lisa M. Larroque Alexander
 Category: A. Research, Development and Demonstration
 Category-Sub: 1. Research, Development and Demonstration
 Workpaper: 2RD001.000 - Research Development and Demonstration (RD&D) Technology Development

Determination of Adjusted-Recorded (Incurred Costs):

	2012 (\$000)	2013 (\$000)	2014 (\$000)	2015 (\$000)	2016 (\$000)
Recorded (Nominal \$)*					
Labor	1,101	968	1,258	1,687	1,819
Non-Labor	6,756	6,919	7,141	11,154	8,519
NSE	0	0	0	0	0
Total	7,857	7,887	8,398	12,841	10,339
FTE	10.9	9.1	12.1	16.6	17.6
Adjustments (Nominal \$) **					
Labor	117	66	15	-2	0
Non-Labor	44	26	27	30	5
NSE	0	0	0	0	0
Total	160	93	42	29	5
FTE	0.9	0.6	0.1	0.0	0.0
Recorded-Adjusted (Nominal \$)					
Labor	1,217	1,034	1,273	1,685	1,819
Non-Labor	6,799	6,946	7,167	11,184	8,524
NSE	0	0	0	0	0
Total	8,017	7,980	8,440	12,869	10,344
FTE	11.8	9.7	12.2	16.6	17.6
Vacation & Sick (Nominal \$)					
Labor	193	171	208	273	300
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	193	171	208	273	300
FTE	1.9	1.6	2.0	2.8	3.0
Escalation to 2016\$					
Labor	138	87	72	48	0
Non-Labor	197	86	-23	29	0
NSE	0	0	0	0	0
Total	335	174	49	77	0
FTE	0.0	0.0	0.0	0.0	0.0
Recorded-Adjusted (Constant 2016\$)					
Labor	1,549	1,292	1,553	2,006	2,119
Non-Labor	6,996	7,032	7,145	11,213	8,524
NSE	0	0	0	0	0
Total	8,545	8,324	8,697	13,219	10,643
FTE	13.7	11.3	14.2	19.4	20.6

* After company-wide exclusions of Non-GRC costs

** Refer to "Detail of Adjustments to Recorded" page for line item adjustments

Note: Totals may include rounding differences.

Southern California Gas Company
2019 GRC - APP
Non-Shared Service Workpapers

Area: CS - TECHNOLOGIES, POLICIES & SOLUTIONS
 Witness: Lisa M. Larroque Alexander
 Category: A. Research, Development and Demonstration
 Category-Sub: 1. Research, Development and Demonstration
 Workpaper: 2RD001.000 - Research Development and Demonstration (RD&D) Technology Development

Summary of Adjustments to Recorded:

In Nominal \$ (000) Incurred Costs					
Years	2012	2013	2014	2015	2016
Labor	117	66	15	-2	0
Non-Labor	44	26	27	30	5
NSE	0	0	0	0	0
Total	160	93	42	29	5
FTE	0.9	0.6	0.1	0.0	0.0

Detail of Adjustments to Recorded:

Year	Adj Group	Labor	NLbr	NSE	FTE	Adj Type	RefID
2012	Other	117	21	0	0.9	CCTR Transf From 2100-4018.000	CSCHRAMM20161016112331657
Explanation: Transfer labor, FTE, and non-labor costs associated with SoCalGas RD&D Project Manager function from cost center 2100-4018 in work group 11N004 (Customer Programs, Pricing and Other Office) to SoCalGas cost center 2200-2059.001 in work group 2RD001 (CS - Technologies RDD) to align costs where function resides. Reference internal orders: 7025532, 7043704							
2012	Other	0	23	0	0.0	CCTR Transf From 2100-3434.000	CSCHRAMM20161016122352807
Explanation: Transfer non-labor costs associated with SoCalGas RD&D Projects from SDG&E USS cost center 2100-3434 Business Strategy and Development to SoCalGas cost center 2200-2059 in work group 2RD001.001 SCG CS - Technologies RD&D to align costs where function resides. Reference Internal Order: 7025532.							
2012 Total		117	44	0	0.9		

2013	Other	0	14	0	0.0	CCTR Transf From 2100-3434.000	CSCHRAMM20161016122430343
------	-------	---	----	---	-----	--------------------------------	---------------------------

Explanation: Transfer non-labor costs associated with SoCalGas RD&D Projects from SDG&E USS cost center 2100-3434 Business Strategy and Development to SoCalGas cost center 2200-2059 in work group 2RD001.001 CS - Technologies RD&D to align costs where function resides. Reference Internal Order: 7025532.

2013	Other	-1	0	0	0.0	CCTR Transf To 2200-8000.001	SYCHANG20161104170041653
------	-------	----	---	---	-----	------------------------------	--------------------------

Explanation: Adjustment to move Cash Award to the appropriate Benefits & Compensation, Exhibit SCG-30.

2013	Other	6	12	0	0.1	CCTR Transf From 2100-4018.000	CSCHRAMM20161016112408510
------	-------	---	----	---	-----	--------------------------------	---------------------------

Explanation: Transfer labor/FTE and non-labor costs associated with SoCalGas RD&D Project Manager function from cost center 2100-4018 in work paper group 11N004 Customer Programs, Pricing, and Other Office to SoCalGas cost center 2200-2059.001 in work paper group 2RD001 CS - Technologies RD&D to align costs where function resides. Reference internal orders: 7025532, 7043704

Note: Totals may include rounding differences.

Southern California Gas Company
2019 GRC - APP
Non-Shared Service Workpapers

Area: CS - TECHNOLOGIES, POLICIES & SOLUTIONS
 Witness: Lisa M. Larroque Alexander
 Category: A. Research, Development and Demonstration
 Category-Sub: 1. Research, Development and Demonstration
 Workpaper: 2RD001.000 - Research Development and Demonstration (RD&D) Technology Development

Year	Adj Group	Labor	NLbr	NSE	FTE	Adj Type	RefID
2013	Other	61	0	0	0.5	CCTR Transf From 2100-3776.000	CSCHRAMM20161016203042013
Explanation: Transfer SoCalGas RD&D Labor and non-labor costs (reference SoCalGas Billing IO 7043704) from 2100-3776 in work paper group 1IN004 Customer Programs, Pricing, and Other Office to 2200-2059.001 in work paper group 2RD001 CS Technologies RD&D to align costs where SoCalGas RD&D activity/function resides.							
2013 Total		66	26	0	0.6		
2014	Other	-3	0	0	0.0	CCTR Transf To 2200-8000.001	SYCHANG20161104170526127
Explanation: Adjustment to move Cash Award to the appropriate Benefits & Compensation, Exhibit SCG-30.							
2014	Other	2	6	0	0.0	CCTR Transf From 2100-4018.000	CSCHRAMM20161016112445770
Explanation: Transfer labor, FTE, and non-labor costs associated with SoCalGas RD&D Project Manager function from cost center 2100-4018 in work paper group 1IN004 Customer Programs, Pricing and Other Office to SoCalGas cost center 2200-2059.001 in work paper group 2RD001 CS - Technologies RD&D to align costs where function resides. Reference internal orders: 7025532, 7043704							
2014	Other	0	21	0	0.0	CCTR Transf From 2100-3434.000	CSCHRAMM20161016123124097
Explanation: Transfer labor/FTE and non-labor costs associated with SoCalGas RD&D Projects from SDG&E USS cost center 2100-3434 Business Strategy and Development to SoCalGas cost center 2200-2059 in work group 2RD001.001 CS - Technologies RD&D to align costs where function resides. Reference Internal Order: 7025532.							
2014	Other	16	0	0	0.1	CCTR Transf From 2100-3776.000	CSCHRAMM20161016204802310
Explanation: Transfer SoCalGas RD&D labor and FTE costs (reference SoCalGas Billing IO 7043704) from 2100-3776 in work paper group 1IN004 Customer Programs, Pricing, and Other Office to 2200-2059.001 in work paper group 2RD001 CS Technologies RD&D to align costs where SoCalGas RD&D activity/function resides.							
2014 Total		15	27	0	0.1		
2015	Other	0	1	0	0.0	CCTR Transf From 2100-4018.000	CSCHRAMM20161016112526630
Explanation: Transfer non-labor costs associated with SoCalGas RD&D Project Manager function from cost center 2100-4018 in work paper group 1IN004 Customer Programs, Pricing and Other Office to SoCalGas cost center 2200-2059.001 in work paper group 2RD001 CS - Technologies RD&D to align costs where function resides. Reference internal order: 7025532							
2015	Other	0	29	0	0.0	CCTR Transf From 2100-3434.000	CSCHRAMM20161016123818180
Explanation: Transfer non-labor costs associated with SCG RD&D Projects from SDG&E USS cost center 2100-3434 Business Strategy and Development to SoCalGas cost center 2200-2059 in work group 2RD001.001 CS - Technologies RD&D to align costs where function resides. Reference Internal Order: 7025532.							

Note: Totals may include rounding differences.

Southern California Gas Company
2019 GRC - APP
Non-Shared Service Workpapers

Area: CS - TECHNOLOGIES, POLICIES & SOLUTIONS
 Witness: Lisa M. Larroque Alexander
 Category: A. Research, Development and Demonstration
 Category-Sub: 1. Research, Development and Demonstration
 Workpaper: 2RD001.000 - Research Development and Demonstration (RD&D) Technology Development

<u>Year</u>	<u>Adj Group</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>FTE</u>	<u>Adj Type</u>	<u>RefID</u>
2015	Other	-2	0	0	0.0	CCTR Transf To 2200-8000.001	SYCHANG20161104170749013
Explanation: Adjustment to move Cash Award to the appropriate Benefits & Compensation, Exhibit SCG-30.							
2015 Total		-2	30	0	0.0		
2016	Other	0	5	0	0.0	CCTR Transf From 2100-3434.000	CSCHRAMM20170223155129117
Explanation: Transfer non-labor costs associated with SoCalGas RD&D Projects from SDG&E USS cost center 2100-3434 Business Strategy and Development to SoCalGas cost center 2200-2059 in work group 2RD001.001 CS - Technologies RD&D to align costs where function resides. Reference Internal Order: 7025532.							
2016 Total		0	5	0	0.0		

Note: Totals may include rounding differences.

Southern California Gas Company
2019 GRC - APP
Non-Shared Service Workpapers

Area: CS - TECHNOLOGIES, POLICIES & SOLUTIONS
 Witness: Lisa M. Larroque Alexander
 Category: B. Policy and Environmental Solutions NSS
 Workpaper: 2RD002.000

Summary for Category: B. Policy and Environmental Solutions NSS

	In 2016\$ (000) Incurred Costs			
	Adjusted-Recorded	Adjusted-Forecast		
	2016	2017	2018	2019
Labor	633	633	748	748
Non-Labor	134	134	149	149
NSE	0	0	0	0
Total	<u>767</u>	<u>767</u>	<u>897</u>	<u>897</u>
FTE	5.0	5.0	6.0	6.0

Workpapers belonging to this Category:

2RD002.000 Policy & Environmental Solutions NSS

Labor	633	633	748	748
Non-Labor	134	134	149	149
NSE	0	0	0	0
Total	<u>767</u>	<u>767</u>	<u>897</u>	<u>897</u>
FTE	5.0	5.0	6.0	6.0

Note: Totals may include rounding differences.

Beginning of Workpaper
2RD002.000 - Policy & Environmental Solutions NSS

Southern California Gas Company
2019 GRC - APP
Non-Shared Service Workpapers

Area: CS - TECHNOLOGIES, POLICIES & SOLUTIONS
 Witness: Lisa M. Larroque Alexander
 Category: B. Policy and Environmental Solutions NSS
 Category-Sub: 1. Public Policy and Environmental Solutions NSS
 Workpaper: 2RD002.000 - Policy & Environmental Solutions NSS

Activity Description:

Lead the development and implementation of SoCalGas' public policy and planning efforts to secure natural gas' foundational role in meeting federal, state, regional and local energy and environmental policy goals. Responsible for public policy issues management, local climate/energy action/sustainability plans, and environmental strategy to support business goals.

Forecast Explanations:

Labor - Base YR Rec

This method is most appropriate because trends, multi-year averages or other methods would not reflect the fact that Policy and Environmental Solutions is a newly formed organization that consolidates several pre-existing functions but also adds new functions not included in the predecessor organizations. Other methodologies would also not reflect the impact of new regulations and policy matters that will need to be addressed during the forecast period that were not in effect during the historical period.

Non-Labor - Base YR Rec

This method is most appropriate because trends, multi-year averages or other methods would not reflect the additional need for external expert analysis needed to address proposed regulations, rulemakings and legislative proposals expected during the forecast period that were not ongoing during the historical period.

NSE - Base YR Rec

Not applicable

Summary of Results:

		In 2016\$ (000) Incurred Costs								
		Adjusted-Recorded					Adjusted-Forecast			
Years		2012	2013	2014	2015	2016	2017	2018	2019	
Labor		0	33	228	316	633	634	749	749	
Non-Labor		0	24	50	133	134	134	149	149	
NSE		0	0	0	0	0	0	0	0	
Total		0	58	278	449	767	768	898	898	
FTE		0.0	0.2	1.9	2.7	5.0	5.0	6.0	6.0	

Note: Totals may include rounding differences.

Southern California Gas Company
2019 GRC - APP
Non-Shared Service Workpapers

Area: CS - TECHNOLOGIES, POLICIES & SOLUTIONS
 Witness: Lisa M. Larroque Alexander
 Category: B. Policy and Environmental Solutions NSS
 Category-Sub: 1. Public Policy and Environmental Solutions NSS
 Workpaper: 2RD002.000 - Policy & Environmental Solutions NSS

Summary of Adjustments to Forecast:

In 2016 \$(000) Incurred Costs										
Forecast Method		Base Forecast			Forecast Adjustments			Adjusted-Forecast		
Years		2017	2018	2019	2017	2018	2019	2017	2018	2019
Labor	Base YR Rec	633	633	633	0	115	115	633	748	748
Non-Labor	Base YR Rec	134	134	134	0	15	15	134	149	149
NSE	Base YR Rec	0	0	0	0	0	0	0	0	0
Total		767	767	767	0	130	130	767	897	897
FTE	Base YR Rec	5.0	5.0	5.0	0.0	1.0	1.0	5.0	6.0	6.0

Forecast Adjustment Details:

Year	Adj Group	Labor	NLbr	NSE	Total	FTE	Adj Type	RefID
2017 Total		0	0	0	0	0.0		
2018	RnwblGas-Other	115	15	0	130	1.0	1-Sided Adj	SYCHANG20161205160138300
2018 Total		115	15	0	130	1.0		
2019	RnwblGas-Other	115	15	0	130	1.0	1-Sided Adj	SYCHANG20161205160152220
2019 Total		115	15	0	130	1.0		

Explanation: To hire an Full-Time Equivalent (FTE) to address increase in energy related legislation and local climate planning activity. Labor and Non-Labor, which consists of travel expenses.

Explanation: To hire an Full-Time Equivalent to address increase in energy related legislation and local climate planning activity. Labor and Non-Labor, which consists of travel expenses.

Note: Totals may include rounding differences.

Southern California Gas Company
2019 GRC - APP
Non-Shared Service Workpapers

Area: CS - TECHNOLOGIES, POLICIES & SOLUTIONS
Witness: Lisa M. Larroque Alexander
Category: B. Policy and Environmental Solutions NSS
Category-Sub: 1. Public Policy and Environmental Solutions NSS
Workpaper: 2RD002.000 - Policy & Environmental Solutions NSS

Determination of Adjusted-Recorded (Incurred Costs):

	2012 (\$000)	2013 (\$000)	2014 (\$000)	2015 (\$000)	2016 (\$000)
Recorded (Nominal \$)*					
Labor	0	170	175	135	222
Non-Labor	0	37	58	37	19
NSE	0	0	0	0	0
Total	0	207	233	172	241
FTE	0.0	1.0	0.9	0.9	1.8
Adjustments (Nominal \$) **					
Labor	0	-143	12	130	321
Non-Labor	0	-13	-8	96	115
NSE	0	0	0	0	0
Total	0	-156	4	226	436
FTE	0.0	-0.8	0.7	1.4	2.5
Recorded-Adjusted (Nominal \$)					
Labor	0	27	187	265	544
Non-Labor	0	24	50	133	134
NSE	0	0	0	0	0
Total	0	51	237	398	678
FTE	0.0	0.2	1.6	2.3	4.3
Vacation & Sick (Nominal \$)					
Labor	0	4	31	43	90
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	0	4	31	43	90
FTE	0.0	0.0	0.3	0.4	0.7
Escalation to 2016\$					
Labor	0	2	11	8	0
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	0	3	10	8	0
FTE	0.0	0.0	0.0	0.0	0.0
Recorded-Adjusted (Constant 2016\$)					
Labor	0	33	228	316	633
Non-Labor	0	24	50	133	134
NSE	0	0	0	0	0
Total	0	58	278	449	767
FTE	0.0	0.2	1.9	2.7	5.0

* After company-wide exclusions of Non-GRC costs

** Refer to "Detail of Adjustments to Recorded" page for line item adjustments

Note: Totals may include rounding differences.

Southern California Gas Company
2019 GRC - APP
Non-Shared Service Workpapers

Area: CS - TECHNOLOGIES, POLICIES & SOLUTIONS
 Witness: Lisa M. Larroque Alexander
 Category: B. Policy and Environmental Solutions NSS
 Category-Sub: 1. Public Policy and Environmental Solutions NSS
 Workpaper: 2RD002.000 - Policy & Environmental Solutions NSS

Summary of Adjustments to Recorded:

In Nominal \$ (000) Incurred Costs					
Years	2012	2013	2014	2015	2016
Labor	0	-143	12	130	321
Non-Labor	0	-13	-8	96	115
NSE	0	0	0	0	0
Total	0	-156	4	226	436
FTE	0.0	-0.8	0.7	1.4	2.5

Detail of Adjustments to Recorded:

Year	Adj Group	Labor	NLbr	NSE	FTE	Adj Type	RefID
2012 Total		0	0	0	0.0		
2013	Other	-143	-13	0	-0.8	CCTR Transf To 2200-2441.000	EPANAMEN20161101214923230
2013 Total		-143	-13	0	-0.8		
2014	Other	-178	-25	0	-1.0	CCTR Transf To 2200-2441.000	EPANAMEN20161101215259947
2014 Total		12	-8	0	0.7		
2014	Other	67	0	0	0.8	CCTR Transf From 2200-2504.000	EPANAMEN20161113223910497
2014 Total		12	-8	0	0.7		
2014	Other	124	17	0	0.9	CCTR Transf From 2200-2504.000	EPANAMEN20161113224023493
2014 Total		12	-8	0	0.7		
2014	Other	-1	0	0	0.0	1-Sided Adj	EPANAMEN20161116161154640
2014 Total		12	-8	0	0.7		

Note: Totals may include rounding differences.

Southern California Gas Company
2019 GRC - APP
Non-Shared Service Workpapers

Area: CS - TECHNOLOGIES, POLICIES & SOLUTIONS
 Witness: Lisa M. Larroque Alexander
 Category: B. Policy and Environmental Solutions NSS
 Category-Sub: 1. Public Policy and Environmental Solutions NSS
 Workpaper: 2RD002.000 - Policy & Environmental Solutions NSS

<u>Year</u>	<u>Adj Group</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>FTE</u>	<u>Adj Type</u>	<u>RefID</u>
2015	Other	-40	0	0	-0.2	CCTR Transf To 2200-2441.000	EPANAMEN20161103133309093
Explanation: Transfer labor (FTE) costs associated with the Policy and Environmental Solutions Director role from 2200-2480 (2RD002.000) Public Policy & Planning cost center to 2200-2441 (2AG011.000) to align functions where they reside and will be forecast.							
2015	Aliso	-3	0	0	0.0	1-Sided Adj	EPANAMEN20161109220943583
Explanation: ALISO Canyon Incident - Exclude costs & associated FTEs. 300775156, Wellhead Leak							
2015	Other	164	96	0	1.4	CCTR Transf From 2200-2504.000	EPANAMEN20161113224702450
Explanation: Transfer labor FTE and non-labor costs from USS cost center 2200-2504 Publib Policy & Planning to NSS cost center 2200-2480 Environmental Policy to align functions where they reside and will be forecast.							
2015	Other	11	0	0	0.2	CCTR Transf From 2200-2504.000	EPANAMEN20161113225029450
Explanation: Transfer labor FTE costs from USS cost center 2200-2504 Publib Policy & Planning to NSS cost center 2200-2480 Environmental Policy to align functions where they reside and will be forecast.							
2015	Other	-1	0	0	0.0	1-Sided Adj	EPANAMEN20161116161227183
Explanation: Remove costs related to lobbying.							
2015 Total		130	96	0	1.4		
2016	Other	-2	-1	0	0.0	1-Sided Adj	EPANAMEN20170225014532070
Explanation: Remove costs related to lobbying.							
2016	Other	326	117	0	2.5	CCTR Transf From 2200-2504.000	EPANAMEN20170226215839603
Explanation: Transfer labor FTE and non-labor costs from USS cost center 2200-2504 Publib Policy & Planning to NSS cost center 2200-2480 Policy & Environmental Solutions to align functions where they reside and will be forecast.							
2016	Aliso	-3	-1	0	0.0	1-Sided Adj	EPANAMEN20170214111720647
Explanation: ALISO Canyon Incident - Exclude costs & associated FTEs. 300775156, Wellhead Leak.							
2016 Total		321	115	0	2.5		

Note: Totals may include rounding differences.

Southern California Gas Company
2019 GRC - APP
Shared Services Workpapers

Area: CS - TECHNOLOGIES, POLICIES & SOLUTIONS
Witness: Lisa M. Larroque Alexander

Summary of Shared Services Workpapers:

Description	In 2016 \$ (000) Incurred Costs			
	Adjusted-Recorded	Adjusted-Forecast		
	2016	2017	2018	2019
A. Policy and Environmental Solutions USS	2,026	1,835	2,294	2,508
B. Business Strategy and Development	1,190	1,480	1,500	1,500
Total	3,216	3,315	3,794	4,008

Note: Totals may include rounding differences.

Southern California Gas Company
2019 GRC - APP
Shared Services Workpapers

Area: CS - TECHNOLOGIES, POLICIES & SOLUTIONS
Witness: Lisa M. Larroque Alexander
Category: A. Policy and Environmental Solutions USS
Cost Center: VARIOUS

Summary for Category: A. Policy and Environmental Solutions USS

	In 2016\$ (000) Incurred Costs			
	Adjusted-Recorded	Adjusted-Forecast		
	2016	2017	2018	2019
Labor	1,286	1,041	1,335	1,335
Non-Labor	740	793	958	1,172
NSE	0	0	0	0
Total	2,026	1,834	2,293	2,507
FTE	10.6	9.2	11.8	11.8

Cost Centers belonging to this Category:

2200-2288.000 ENVIRONMENTAL AFFAIRS

Labor	478	470	588	588
Non-Labor	35	44	59	59
NSE	0	0	0	0
Total	513	514	647	647
FTE	3.8	3.8	4.8	4.8

2200-2396.000 ENERGY & ENVIRONMENTAL POLICY

Labor	603	366	542	542
Non-Labor	700	734	884	1,098
NSE	0	0	0	0
Total	1,303	1,100	1,426	1,640
FTE	4.8	3.4	5.0	5.0

2200-2505.000 PLANNING & LEGISLATIVE ANALYSIS

Labor	205	205	205	205
Non-Labor	5	15	15	15
NSE	0	0	0	0
Total	210	220	220	220
FTE	2.0	2.0	2.0	2.0

Note: Totals may include rounding differences.

Beginning of Workpaper
2200-2288.000 - ENVIRONMENTAL AFFAIRS

Southern California Gas Company
2019 GRC - APP
Shared Services Workpapers

Area: CS - TECHNOLOGIES, POLICIES & SOLUTIONS
 Witness: Lisa M. Larroque Alexander
 Category: A. Policy and Environmental Solutions USS
 Category-Sub: 1. Public Policy and Environmental Solutions USS
 Cost Center: 2200-2288.000 - ENVIRONMENTAL AFFAIRS

Activity Description:

This cost center provides services of environmental program managers that monitor and analyze issues to identify air quality regulatory and compliance impacts on SoCalGas and SDG&E customers and on utility operations. The group works directly with air agency staff and with customers on rulemaking and compliance matters.

Forecast Explanations:

Labor - 5-YR Average

A 5-year average method was chosen as the historical data from this cost center has been steady and consistent. This method is most appropriate because it is representative of the activity levels required in the forecast period.

Non-Labor - 5-YR Average

A 5-year average method was chosen as the historical data from this cost center has been steady and consistent. This method is most appropriate because it is representative of the activity levels required in the forecast period.

NSE - 5-YR Average

Not applicable

Summary of Results:

		In 2016\$ (000) Incurred Costs								
		Adjusted-Recorded					Adjusted-Forecast			
Years		2012	2013	2014	2015	2016	2017	2018	2019	
Labor		486	476	481	432	478	471	589	589	
Non-Labor		45	42	54	42	35	44	59	59	
NSE		0	0	0	0	0	0	0	0	
Total		531	518	535	475	512	515	648	648	
FTE		4.0	4.0	4.0	3.5	3.9	3.8	4.8	4.8	

Note: Totals may include rounding differences.

Southern California Gas Company
2019 GRC - APP
Shared Services Workpapers

Area: CS - TECHNOLOGIES, POLICIES & SOLUTIONS
 Witness: Lisa M. Larroque Alexander
 Category: A. Policy and Environmental Solutions USS
 Category-Sub: 1. Public Policy and Environmental Solutions USS
 Cost Center: 2200-2288.000 - ENVIRONMENTAL AFFAIRS

Cost Center Allocations (Incurred Costs):

	2016 Adjusted-Recorded					2017 Adjusted-Forecast				
	Labor	Non-Labor	NSE	Total	FTE	Labor	Non-Labor	NSE	Total	FTE
Directly Retained	21	0	0	21	0.0	5	2	0	7	0.0
Directly Allocated	0	0	0	0	0.0	0	0	0	0	0.0
Subj. To % Alloc.	457	34	0	491	3.8	466	42	0	508	3.8
Total Incurred	478	34	0	512	3.8	471	44	0	515	3.8
% Allocation										
Retained	95.75%	95.75%				95.75%	95.75%			
SEU	4.25%	4.25%				4.25%	4.25%			
CORP	0.00%	0.00%				0.00%	0.00%			
Unreg	0.00%	0.00%				0.00%	0.00%			

	2018 Adjusted-Forecast					2019 Adjusted-Forecast				
	Labor	Non-Labor	NSE	Total	FTE	Labor	Non-Labor	NSE	Total	FTE
Directly Retained	5	2	0	7	0.0	5	2	0	7	0.0
Directly Allocated	0	0	0	0	0.0	0	0	0	0	0.0
Subj. To % Alloc.	584	57	0	641	4.8	584	57	0	641	4.8
Total Incurred	589	59	0	648	4.8	589	59	0	648	4.8
% Allocation										
Retained	95.75%	95.75%				95.75%	95.75%			
SEU	4.25%	4.25%				4.25%	4.25%			
CORP	0.00%	0.00%				0.00%	0.00%			
Unreg	0.00%	0.00%				0.00%	0.00%			

Cost Center Allocation Percentage Drivers/Methodology:

Cost Center Allocation Percentage for 2016

The allocation methodology is based on the cost center manager's assessment of time spent completing specific activities and the allocation of this time between the utilities.

Cost Center Allocation Percentage for 2017

The allocation methodology is based on the cost center manager's assessment of time spent completing specific activities and the allocation of this time between the utilities.

Cost Center Allocation Percentage for 2018

The allocation methodology is based on the cost center manager's assessment of time spent completing specific activities and the allocation of this time between the utilities.

Cost Center Allocation Percentage for 2019

The allocation methodology is based on the cost center manager's assessment of time spent completing specific activities and the allocation of this time between the utilities.

Note: Totals may include rounding differences.

Southern California Gas Company
2019 GRC - APP
Shared Services Workpapers

Area: CS - TECHNOLOGIES, POLICIES & SOLUTIONS
 Witness: Lisa M. Larroque Alexander
 Category: A. Policy and Environmental Solutions USS
 Category-Sub: 1. Public Policy and Environmental Solutions USS
 Cost Center: 2200-2288.000 - ENVIRONMENTAL AFFAIRS

Determination of Adjusted-Recorded (Incurred Costs):

	2012 (\$000)	2013 (\$000)	2014 (\$000)	2015 (\$000)	2016 (\$000)
Recorded (Nominal \$)*					
Labor	571	454	518	450	444
Non-Labor	51	41	66	46	43
NSE	0	0	0	0	0
Total	621	495	583	496	486
FTE	4.4	3.7	4.3	3.6	3.3
Adjustments (Nominal \$) **					
Labor	-176	-62	-113	-83	-34
Non-Labor	-8	0	-13	-5	-8
NSE	0	0	0	0	0
Total	-184	-62	-126	-87	-42
FTE	-1.0	-0.3	-0.9	-0.6	0.0
Recorded-Adjusted (Nominal \$)					
Labor	395	392	404	367	410
Non-Labor	43	41	53	42	35
NSE	0	0	0	0	0
Total	437	433	457	409	445
FTE	3.4	3.4	3.4	3.0	3.3
Vacation & Sick (Nominal \$)					
Labor	63	65	66	59	68
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	63	65	66	59	68
FTE	0.6	0.6	0.6	0.5	0.6
Escalation to 2016\$					
Labor	27	18	10	5	0
Non-Labor	3	2	1	1	0
NSE	0	0	0	0	0
Total	30	20	12	6	0
FTE	0.0	0.0	0.0	0.0	0.0
Recorded-Adjusted (Constant 2016\$)					
Labor	486	476	481	432	478
Non-Labor	45	42	54	42	35
NSE	0	0	0	0	0
Total	531	518	535	475	512
FTE	4.0	4.0	4.0	3.5	3.9

* After company-wide exclusions of Non-GRC costs

** Refer to "Detail of Adjustments to Recorded" page for line item adjustments

Note: Totals may include rounding differences.

Southern California Gas Company
2019 GRC - APP
Shared Services Workpapers

Area: CS - TECHNOLOGIES, POLICIES & SOLUTIONS
 Witness: Lisa M. Larroque Alexander
 Category: A. Policy and Environmental Solutions USS
 Category-Sub: 1. Public Policy and Environmental Solutions USS
 Cost Center: 2200-2288.000 - ENVIRONMENTAL AFFAIRS

Summary of Adjustments to Recorded:

In Nominal \$ (000) Incurred Costs					
Years	2012	2013	2014	2015	2016
Labor	-176	-62	-113	-83	-34
Non-Labor	-8	0	-13	-5	-8
NSE	0	0	0	0	0
Total	-184	-62	-126	-87	-42
FTE	-1.0	-0.3	-0.9	-0.6	0.0

Detail of Adjustments to Recorded:

Year	Adj Group	Labor	NLbr	NSE	FTE	Adj Type	RefID
2012	Other	-176	-8	0	-1.0	CCTR Transf To 2200-2441.000	EPANAMEN20161108103801873
Explanation:		Transfer labor (FTE) and Non-Labor costs associated with the Policy and Environmental Solutions Director role from 2200-2288 (2RD002.000) Public Policy & Planning cost center to 2200-2441 (2AG011.000) to align functions where they reside and will be forecast.					
2012 Total		-176	-8	0	-1.0		
2013	Other	-52	0	0	-0.2	CCTR Transf To 2200-2441.000	EPANAMEN20161108103909247
Explanation:		Transfer labor (FTE) costs associated with the Policy and Environmental Solutions Director role from 2200-2288 Environmental Affairs cost center to 2200-2441 (2AG011.000) to align functions where they reside and will be forecast.					
2013	Other	-9	0	0	-0.1	CCTR Transf To 2200-2396.000	EPANAMEN20161108221844993
Explanation:		Transfer labor (FTE) costs associated with the Energy & Environmental Affairs project manager role from 2200-2288 Environmental Affairs cost center to 2200-2396 to align functions where they reside and will be forecast.					
2013 Total		-62	0	0	-0.3		
2014	Other	-108	-10	0	-0.9	CCTR Transf To 2200-2396.000	EPANAMEN20161108222035917
Explanation:		Transfer labor (FTE) and Non-Labor costs associated with the Energy & Environmental Affairs project manager role from 2200-2288 Environmental Affairs cost center to 2200-2396 to align functions where they reside and will be forecast.					
2014	Other	-6	-3	0	0.0	1-Sided Adj	EPANAMEN20161116154112860
Explanation:		Remove costs related to lobbying.					

Note: Totals may include rounding differences.

Southern California Gas Company
2019 GRC - APP
Shared Services Workpapers

Area: CS - TECHNOLOGIES, POLICIES & SOLUTIONS
 Witness: Lisa M. Larroque Alexander
 Category: A. Policy and Environmental Solutions USS
 Category-Sub: 1. Public Policy and Environmental Solutions USS
 Cost Center: 2200-2288.000 - ENVIRONMENTAL AFFAIRS

<u>Year</u>	<u>Adj Group</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>FTE</u>	<u>Adj Type</u>	<u>RefID</u>
2014 Total		-113	-13	0	-0.9		
2015	Other	-75	0	0	-0.6	CCTR Transf To 2200-2396.000	EPANAMEN20161108222200550
Explanation:		Transfer labor (FTE) costs associated with the Energy & Environmental Affairs project manager role from 2200-2288 Environmental Affairs cost center to 2200-2396 to align functions where they reside and will be forecast.					
2015	Other	-8	-5	0	0.0	1-Sided Adj	EPANAMEN20161116154200057
Explanation:		Remove costs related to lobbying.					
2015 Total		-83	-5	0	-0.6		
2016	Other	-34	-7	0	0.0	1-Sided Adj	EPANAMEN20170225015049887
Explanation:		Remove costs related to lobbying.					
2016	Aliso	0	-1	0	0.0	1-Sided Adj	EPANAMEN20170214111327593
Explanation:		ALISO Canyon Incident - Exclude costs & associated FTEs. 300775156, Wellhead Leak					
2016 Total		-34	-8	0	0.0		

Note: Totals may include rounding differences.

Beginning of Workpaper
2200-2396.000 - ENERGY & ENVIRONMENTAL POLICY

Southern California Gas Company
2019 GRC - APP
Shared Services Workpapers

Area: CS - TECHNOLOGIES, POLICIES & SOLUTIONS
 Witness: Lisa M. Larroque Alexander
 Category: A. Policy and Environmental Solutions USS
 Category-Sub: 1. Public Policy and Environmental Solutions USS
 Cost Center: 2200-2396.000 - ENERGY & ENVIRONMENTAL POLICY

Activity Description:

This group provides policy analysis, agency engagement and outreach related to policies, laws and regulations related to natural gas delivery and utilization. The team is responsible for regulatory proceedings at California Air Resource Board (CARB) and California Energy Commission (CEC) on natural gas utilization, environmental policy and regulation (such as greenhouse gas regulation and air quality) and energy policy and regulation (such as the CEC Integrated Energy Policy Report).

Forecast Explanations:

Labor - 5-YR Average

5-year average was selected to reflect the increased level of activity at these agencies over the past few years. Due to legislation on Greenhouse Gas (GHG) reductions and Natural Gas (NG) infrastructure, there has been an increase in the regulatory proceedings by both CARB and CEC. To manage this additional activity, we have dedicated additional resources to this area. The 5-year average with an adjustment for personnel changes reflects the best representation of the on-going needs for this function.

Non-Labor - 5-YR Average

5-year average was selected to reflect the increased level of activity at these agencies over the past few years. Due to Legislation on GHG reductions and NG infrastructure, there has been an increase in the regulatory proceedings by both CARB and CEC. To manage this additional activity, we have dedicated additional resources to this area. The 5-year average with an adjustment for personnel changes reflects the best representation of the on-going needs for this function.

NSE - 5-YR Average

Not applicable

Summary of Results:

		In 2016\$ (000) Incurred Costs								
		Adjusted-Recorded					Adjusted-Forecast			
Years		2012	2013	2014	2015	2016	2017	2018	2019	
Labor		225	228	387	387	603	366	542	542	
Non-Labor		1,211	1,384	1,398	1,050	700	735	885	1,099	
NSE		0	0	0	0	0	0	0	0	
Total		1,436	1,612	1,785	1,437	1,303	1,101	1,427	1,641	
FTE		2.4	2.4	3.8	3.6	4.8	3.4	5.0	5.0	

Note: Totals may include rounding differences.

Southern California Gas Company
2019 GRC - APP
Shared Services Workpapers

Area: CS - TECHNOLOGIES, POLICIES & SOLUTIONS
 Witness: Lisa M. Larroque Alexander
 Category: A. Policy and Environmental Solutions USS
 Category-Sub: 1. Public Policy and Environmental Solutions USS
 Cost Center: 2200-2396.000 - ENERGY & ENVIRONMENTAL POLICY

Cost Center Allocations (Incurred Costs):

	2016 Adjusted-Recorded					2017 Adjusted-Forecast				
	Labor	Non-Labor	NSE	Total	FTE	Labor	Non-Labor	NSE	Total	FTE
Directly Retained	627	500	0	1,127	5.0	319	1,053	0	1,372	3.0
Directly Allocated	0	0	0	0	0.0	0	0	0	0	0.0
Subj. To % Alloc.	-24	200	0	176	-0.2	47	-318	0	-271	0.4
Total Incurred	603	700	0	1,303	4.8	366	735	0	1,101	3.4
% Allocation										
Retained	85.91%	85.91%				85.91%	85.91%			
SEU	14.09%	14.09%				14.09%	14.09%			
CORP	0.00%	0.00%				0.00%	0.00%			
Unreg	0.00%	0.00%				0.00%	0.00%			

	2018 Adjusted-Forecast					2019 Adjusted-Forecast				
	Labor	Non-Labor	NSE	Total	FTE	Labor	Non-Labor	NSE	Total	FTE
Directly Retained	319	1,053	0	1,372	3.0	319	1,053	0	1,372	3.0
Directly Allocated	0	0	0	0	0.0	0	0	0	0	0.0
Subj. To % Alloc.	223	-168	0	55	2.0	223	46	0	269	2.0
Total Incurred	542	885	0	1,427	5.0	542	1,099	0	1,641	5.0
% Allocation										
Retained	85.91%	85.91%				85.91%	85.91%			
SEU	14.09%	14.09%				14.09%	14.09%			
CORP	0.00%	0.00%				0.00%	0.00%			
Unreg	0.00%	0.00%				0.00%	0.00%			

Cost Center Allocation Percentage Drivers/Methodology:

Cost Center Allocation Percentage for 2016

Allocated based on revenue shares for the gas operations of SoCalGas and SDG&E.

Cost Center Allocation Percentage for 2017

Allocated based on revenue shares for the gas operations of SoCalGas and SDG&E.

Cost Center Allocation Percentage for 2018

Allocated based on revenue shares for the gas operations of SoCalGas and SDG&E.

Cost Center Allocation Percentage for 2019

Allocated based on revenue shares for the gas operations of SoCalGas and SDG&E.

Note: Totals may include rounding differences.

Southern California Gas Company
2019 GRC - APP
Shared Services Workpapers

Area: CS - TECHNOLOGIES, POLICIES & SOLUTIONS
 Witness: Lisa M. Larroque Alexander
 Category: A. Policy and Environmental Solutions USS
 Category-Sub: 1. Public Policy and Environmental Solutions USS
 Cost Center: 2200-2396.000 - ENERGY & ENVIRONMENTAL POLICY

Summary of Adjustments to Forecast:

In 2016 \$(000) Incurred Costs										
Forecast Method		Base Forecast			Forecast Adjustments			Adjusted-Forecast		
Years		2017	2018	2019	2017	2018	2019	2017	2018	2019
Labor	5-YR Average	366	366	366	0	176	176	366	542	542
Non-Labor	5-YR Average	1,148	1,148	1,148	-414	-264	-50	734	884	1,098
NSE	5-YR Average	0	0	0	0	0	0	0	0	0
Total		1,515	1,515	1,515	-414	-88	126	1,101	1,427	1,641
FTE	5-YR Average	3.4	3.4	3.4	0.0	1.6	1.6	3.4	5.0	5.0

Forecast Adjustment Details:

Year	Adj Group	Labor	NLbr	NSE	Total	FTE	Adj Type	RefID	
2017	FOF-Ongoing	0	-50	0	-50	0.0	1-Sided Adj	SYCHANG20161205222644783	
Explanation:		FOF Initiative - Optimize consultant spend through annual renegotiation of consultant fees.							
2017	Other	0	-364	0	-364	0.0	1-Sided Adj	SYCHANG20170309162516667	
Explanation:		Starting 2018 and 2019, Air Resources Board (ARB) will be ramping up on the next Scoping Plan Update (due 2020), the LCFS update (due 2019) and State Implementation Plans to reflect the new Air Quality Management Plans for Ozone and Particulate Matter (PM) 2.5, which will be due by the Air Districts in 2018 through 2021. San Joaquin Valley PM2.5 Plan is due in 2018. All air districts will have new ozone plans due in the 2020-21 timeframe. ARB will be working with the Air Districts on on-going Mobile Source Strategy plans to reduce mobile source emissions in these regions. As such, our forecast reflects the level of activity anticipated for the next 3 years.							
2017 Total		0	-414	0	-414	0.0			

2018	FOF-Ongoing	0	-50	0	-50	0.0	1-Sided Adj	SYCHANG20161205222710710	
Explanation:		FOF Initiative - Optimize consultant spend through annual renegotiation of consultant fees.							
2018	Other	61	0	0	61	0.6	1-Sided Adj	SYCHANG20161205222927660	

Note: Totals may include rounding differences.

Southern California Gas Company
2019 GRC - APP
Shared Services Workpapers

Area: CS - TECHNOLOGIES, POLICIES & SOLUTIONS
 Witness: Lisa M. Larroque Alexander
 Category: A. Policy and Environmental Solutions USS
 Category-Sub: 1. Public Policy and Environmental Solutions USS
 Cost Center: 2200-2396.000 - ENERGY & ENVIRONMENTAL POLICY

<u>Year</u>	<u>Adj Group</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>Total</u>	<u>FTE</u>	<u>Adj Type</u>	<u>RefID</u>
Explanation: This is the full year effect of backfill of the CARB Project Manager in 2017. The Agency Program Manager is responsible for following policy development at CARB and CEC. CARB has been expanding their focus on climate change and air quality policy as we get closer to attainment dates for GHG, ozone and particulate matter targets, especially in the transportation sector. Near-zero Natural Gas Vehicle (NGV) play an important role in the CARB's plans to meet the Air Quality (AQ) and GHG targets. As the state moves forward with lower goals, the number of CARB proceedings in these areas continues to ramp up. Similarly, the challenges at CEC around Energy Efficiency (EE) and Zero Net Energy (ZNE), as well as natural gas infrastructure, are also increasing as the state increases the targets for EE savings and moves towards implementing ZNE standards. The Program Manager must identify how policy changes will impact our gas operations and our customers. The Policy Manager will also provide education and outreach with agency staff to inform them about how NG equipment can help reduce emissions to achieve AQ and GHG targets.								
2018	Other	0	-214	0	-214	0.0	1-Sided Adj	SYCHANG20170309162610903
Explanation: Starting 2018 and 2019, Air Resources Board (ARB) will be ramping up on the next Scoping Plan Update (due 2020), the LCFS update (due 2019) and State Implementation Plans to reflect the new Air Quality Management Plans for Ozone and Particulate Matter (PM) 2.5, which will be due by the Air Districts in 2018 through 2021. San Joaquin Valley PM2.5 Plan is due in 2018. All air districts will have new ozone plans due in the 2020-21 timeframe. ARB will be working with the Air Districts on on-going Mobile Source Strategy plans to reduce mobile source emissions in these regions. As such, our forecast reflects the level of activity anticipated for the next 3 years.								
2018	RnwblGas-Other	115	0	0	115	1.0	1-Sided Adj	EPANAMEN20170719093125960
Explanation: Per the Short-Lived Climate Pollutant Plan (SLCP) the state is focused on developing policies to reduce organic sources of methane. The SLCP is a key part of CARB's Plan to achieve the 40% reduction in GHG emissions by 2030. Multiple agencies are engaged in this effort to set policy, including CARB, CEC, CDFA and CalRecycle. The Agency Program Manager will need to address policy development across all of these agencies as we move forward with implementing plans over the next 3-5 years. In addition, ARB will be focusing on implementation of policies to support the objectives of Senate Bill 1383 activities which are under development in 2017. All of these activities will require increased participation by the utilities.								
2018 Total		176	-264	0	-88	1.6		

2019 FOF-Ongoing 0 -50 0 -50 0.0 1-Sided Adj SYCHANG20161205222722193

Explanation: FOF Initiative - Optimize consultant spend through annual renegotiation of consultant fees.

2019 Other 61 0 0 61 0.6 1-Sided Adj SYCHANG20161205222941510

Note: Totals may include rounding differences.

SCG/CS - TECHNOLOGIES, POLICIES & SOLUTIONS/Exh No:SCG-21-WP/Witness: L. Larroque Alexander

Southern California Gas Company
2019 GRC - APP
Shared Services Workpapers

Area: CS - TECHNOLOGIES, POLICIES & SOLUTIONS
 Witness: Lisa M. Larroque Alexander
 Category: A. Policy and Environmental Solutions USS
 Category-Sub: 1. Public Policy and Environmental Solutions USS
 Cost Center: 2200-2396.000 - ENERGY & ENVIRONMENTAL POLICY

<u>Year</u>	<u>Adj Group</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>Total</u>	<u>FTE</u>	<u>Adj Type</u>	<u>RefID</u>
<p>Explanation: This is the full year effect of backfill of the CARB Project Manager in 2017. The Agency Program Manager is responsible for following policy development at CARB and CEC. CARB has been expanding their focus on climate change and air quality policy as we get closer to attainment dates for GHG, ozone and particulate matter targets, especially in the transportation sector. Near-zero Natural Gas Vehicle (NGV) play an important role in the CARB's plans to meet the Air Quality (AQ) and GHG targets. As the state moves forward with lower goals, the number of CARB proceedings in these areas continues to ramp up. Similarly, the challenges at CEC around Energy Efficiency (EE) and Zero Net Energy (ZNE), as well as natural gas infrastructure, are also increasing as the state increases the targets for EE savings and moves towards implementing ZNE standards. The Program Manager must identify how policy changes will impact our gas operations and our customers. The Policy Manager will also provide education and outreach with agency staff to inform them about how NG equipment can help reduce emissions to achieve AQ and GHG targets.</p>								
2019	RnwblGas-Other	115	0	0	115	1.0	1-Sided Adj	EPANAMEN20170719093246953
<p>Explanation: Per the Short Lived Climate Pollutant Plan the state is focused on developing policies to reduce organic sources of methane. The SLCP is a key part of CARB's Plan to achieve the 40% reduction in GHG emissions by 2030. Multiple agencies are engaged in this effort to set policy, including CARB, CEC, CDFA and CalRecycle. The Agency Program Manager will need to address policy development across all of these agencies as we move forward with implementing plans over the next 3-5 years.</p> <p>In addition, ARB will be focusing on implementation of policies to support the objectives of Senate Bill 1383 activities which are under development in 2017. All of these activities will require increased participation by the utilities.</p>								
2019 Total		176	-50	0	126	1.6		

Note: Totals may include rounding differences.

Southern California Gas Company
2019 GRC - APP
Shared Services Workpapers

Area: CS - TECHNOLOGIES, POLICIES & SOLUTIONS
Witness: Lisa M. Larroque Alexander
Category: A. Policy and Environmental Solutions USS
Category-Sub: 1. Public Policy and Environmental Solutions USS
Cost Center: 2200-2396.000 - ENERGY & ENVIRONMENTAL POLICY

Determination of Adjusted-Recorded (Incurred Costs):

	2012 (\$000)	2013 (\$000)	2014 (\$000)	2015 (\$000)	2016 (\$000)
Recorded (Nominal \$)*					
Labor	183	179	220	256	520
Non-Labor	1,142	1,331	1,357	774	700
NSE	0	0	0	0	0
Total	1,325	1,509	1,577	1,029	1,220
FTE	2.1	1.9	2.4	2.5	4.1
Adjustments (Nominal \$) **					
Labor	0	9	106	73	-3
Non-Labor	0	0	10	263	0
NSE	0	0	0	0	0
Total	0	9	116	336	-3
FTE	0.0	0.1	0.8	0.6	0.0
Recorded-Adjusted (Nominal \$)					
Labor	183	188	326	329	518
Non-Labor	1,142	1,331	1,367	1,037	700
NSE	0	0	0	0	0
Total	1,325	1,519	1,693	1,366	1,218
FTE	2.1	2.0	3.2	3.1	4.1
Vacation & Sick (Nominal \$)					
Labor	29	31	53	53	85
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	29	31	53	53	85
FTE	0.3	0.3	0.5	0.5	0.7
Escalation to 2016\$					
Labor	13	9	8	5	0
Non-Labor	69	53	30	13	0
NSE	0	0	0	0	0
Total	81	62	39	18	0
FTE	0.0	0.0	0.0	0.0	0.0
Recorded-Adjusted (Constant 2016\$)					
Labor	225	228	387	387	603
Non-Labor	1,211	1,384	1,398	1,050	700
NSE	0	0	0	0	0
Total	1,436	1,612	1,785	1,437	1,303
FTE	2.4	2.3	3.7	3.6	4.8

* After company-wide exclusions of Non-GRC costs

** Refer to "Detail of Adjustments to Recorded" page for line item adjustments

Note: Totals may include rounding differences.

Southern California Gas Company
2019 GRC - APP
Shared Services Workpapers

Area: CS - TECHNOLOGIES, POLICIES & SOLUTIONS
 Witness: Lisa M. Larroque Alexander
 Category: A. Policy and Environmental Solutions USS
 Category-Sub: 1. Public Policy and Environmental Solutions USS
 Cost Center: 2200-2396.000 - ENERGY & ENVIRONMENTAL POLICY

Summary of Adjustments to Recorded:

In Nominal \$ (000) Incurred Costs					
Years	2012	2013	2014	2015	2016
Labor	0	9	106	73	-3
Non-Labor	0	0	10	263	0
NSE	0	0	0	0	0
Total	0	9	116	336	-3
FTE	0.0	0.1	0.8	0.6	0.0

Detail of Adjustments to Recorded:

Year	Adj Group	Labor	NLbr	NSE	FTE	Adj Type	RefID
2012 Total		0	0	0	0.0		

2013 Other 9 0 0 0.1 CCTR Transf From 2200-2288.000 EPANAMEN20161108221844993

Explanation: Transfer labor (FTE) costs associated with the Energy & Environmental Affairs project manager role from 2200-2288 Environmental Affairs cost center to 2200-2396 to align functions where they reside and will be forecast.

2013 Total 9 0 0 0.1

2014 Other 108 10 0 0.9 CCTR Transf From 2200-2288.000 EPANAMEN20161108222035917

Explanation: Transfer labor (FTE) and Non-Labor costs associated with the Energy & Environmental Affairs project manager role from 2200-2288 Environmental Affairs cost center to 2200-2396 to align functions where they reside and will be forecast.

2014 Other -2 0 0 -0.1 1-Sided Adj EPANAMEN20161116161528750

Explanation: Remove costs related to lobbying.

2014 Total 106 10 0 0.8

2015 Other 75 0 0 0.6 CCTR Transf From 2200-2288.000 EPANAMEN20161108222200550

Explanation: Transfer labor (FTE) costs associated with the Energy & Environmental Affairs project manager role from 2200-2288 Environmental Affairs cost center to 2200-2396 to align functions where they reside and will be forecast.

2015 Other -2 0 0 0.0 1-Sided Adj EPANAMEN20161116161617387

Explanation: Remove costs related to lobbying.

Note: Totals may include rounding differences.

Southern California Gas Company
2019 GRC - APP
Shared Services Workpapers

Area: CS - TECHNOLOGIES, POLICIES & SOLUTIONS
 Witness: Lisa M. Larroque Alexander
 Category: A. Policy and Environmental Solutions USS
 Category-Sub: 1. Public Policy and Environmental Solutions USS
 Cost Center: 2200-2396.000 - ENERGY & ENVIRONMENTAL POLICY

<u>Year</u>	<u>Adj Group</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>FTE</u>	<u>Adj Type</u>	<u>RefID</u>
2015	Other	0	263	0	0.0	CCTR Transf From 2200-2564.000	TPRER20161021132323683
Explanation:		Transfer costs from 2HR001 2200-2564 (Growth Initiative) FG9210002200 Office Supplies & Exps. to cost center 2200-2396.					
2015 Total		73	263	0	0.6		
2016	Other	-3	0	0	0.0	1-Sided Adj	EPANAMEN20170225014706567
Explanation:		Remove costs related to lobbying.					
2016 Total		-3	0	0	0.0		

Note: Totals may include rounding differences.

Beginning of Workpaper
2200-2505.000 - PLANNING & LEGISLATIVE ANALYSIS

Southern California Gas Company
2019 GRC - APP
Shared Services Workpapers

Area: CS - TECHNOLOGIES, POLICIES & SOLUTIONS
 Witness: Lisa M. Larroque Alexander
 Category: A. Policy and Environmental Solutions USS
 Category-Sub: 1. Public Policy and Environmental Solutions USS
 Cost Center: 2200-2505.000 - PLANNING & LEGISLATIVE ANALYSIS

Activity Description:

Manages legislative analysis for SoCalGas and provide legislative support for SDG&E. Provides analysis of legislative policies and emerging issues that could impact SoCalGas and its customers. Manages business unit teams to assess impact of legislation and set Company position or appropriate response to public policy issues. Directs the development of detailed analyses/studies of proposed rules and/or regulations

Forecast Explanations:

Labor - Base YR Rec

This method is most appropriate because trends, multi-year averages or other methods would not reflect the fact that Planning & Legislative Analysis is a newly formed organization that consolidates several pre-existing functions but also adds new functions not included in the predecessor organizations. They would also not reflect the impact of new regulations and policy matters that will need to be addressed during the forecast period that were not in effect during the historical period.

Non-Labor - Base YR Rec

This method is most appropriate because trends, multi-year averages or other methods would not reflect the additional need for external expert analysis needed to address proposed regulations, rulemakings and legislative proposals expected during the forecast period that were not ongoing during the historical period.

NSE - Base YR Rec

Not applicable

Summary of Results:

		In 2016\$ (000) Incurred Costs								
		Adjusted-Recorded					Adjusted-Forecast			
Years		2012	2013	2014	2015	2016	2017	2018	2019	
Labor		0	0	274	242	205	205	205	205	
Non-Labor		0	0	0	33	5	15	15	15	
NSE		0	0	0	0	0	0	0	0	
Total		0	0	274	275	210	220	220	220	
FTE		0.0	0.0	2.1	1.9	2.0	2.0	2.0	2.0	

Note: Totals may include rounding differences.

Southern California Gas Company
2019 GRC - APP
Shared Services Workpapers

Area: CS - TECHNOLOGIES, POLICIES & SOLUTIONS
 Witness: Lisa M. Larroque Alexander
 Category: A. Policy and Environmental Solutions USS
 Category-Sub: 1. Public Policy and Environmental Solutions USS
 Cost Center: 2200-2505.000 - PLANNING & LEGISLATIVE ANALYSIS

Cost Center Allocations (Incurred Costs):

	2016 Adjusted-Recorded					2017 Adjusted-Forecast				
	Labor	Non-Labor	NSE	Total	FTE	Labor	Non-Labor	NSE	Total	FTE
Directly Retained	0	0	0	0	0.0	0	0	0	0	0.0
Directly Allocated	0	0	0	0	0.0	0	0	0	0	0.0
Subj. To % Alloc.	205	5	0	210	2.0	205	15	0	220	2.0
Total Incurred	205	5	0	210	2.0	205	15	0	220	2.0
% Allocation										
Retained	85.91%	85.91%				85.91%	85.91%			
SEU	14.09%	14.09%				14.09%	14.09%			
CORP	0.00%	0.00%				0.00%	0.00%			
Unreg	0.00%	0.00%				0.00%	0.00%			

	2018 Adjusted-Forecast					2019 Adjusted-Forecast				
	Labor	Non-Labor	NSE	Total	FTE	Labor	Non-Labor	NSE	Total	FTE
Directly Retained	0	0	0	0	0.0	0	0	0	0	0.0
Directly Allocated	0	0	0	0	0.0	0	0	0	0	0.0
Subj. To % Alloc.	205	15	0	220	2.0	205	15	0	220	2.0
Total Incurred	205	15	0	220	2.0	205	15	0	220	2.0
% Allocation										
Retained	85.91%	85.91%				85.91%	85.91%			
SEU	14.09%	14.09%				14.09%	14.09%			
CORP	0.00%	0.00%				0.00%	0.00%			
Unreg	0.00%	0.00%				0.00%	0.00%			

Cost Center Allocation Percentage Drivers/Methodology:

Cost Center Allocation Percentage for 2016

Allocated based on revenue shares for the gas operations of SoCalGas and SDG&E.

Cost Center Allocation Percentage for 2017

Allocated based on revenue shares for the gas operations of SoCalGas and SDG&E.

Cost Center Allocation Percentage for 2018

Allocated based on revenue shares for the gas operations of SoCalGas and SDG&E.

Cost Center Allocation Percentage for 2019

Allocated based on revenue shares for the gas operations of SoCalGas and SDG&E.

Note: Totals may include rounding differences.

Southern California Gas Company
2019 GRC - APP
Shared Services Workpapers

Area: CS - TECHNOLOGIES, POLICIES & SOLUTIONS
 Witness: Lisa M. Larroque Alexander
 Category: A. Policy and Environmental Solutions USS
 Category-Sub: 1. Public Policy and Environmental Solutions USS
 Cost Center: 2200-2505.000 - PLANNING & LEGISLATIVE ANALYSIS

Summary of Adjustments to Forecast:

In 2016 \$(000) Incurred Costs										
Forecast Method		Base Forecast			Forecast Adjustments			Adjusted-Forecast		
Years		2017	2018	2019	2017	2018	2019	2017	2018	2019
Labor	Base YR Rec	205	205	205	0	0	0	205	205	205
Non-Labor	Base YR Rec	5	5	5	10	10	10	15	15	15
NSE	Base YR Rec	0	0	0	0	0	0	0	0	0
Total		210	210	210	10	10	10	220	220	220
FTE	Base YR Rec	2.0	2.0	2.0	0.0	0.0	0.0	2.0	2.0	2.0

Forecast Adjustment Details:

Year	Adj Group	Labor	NLbr	NSE	Total	FTE	Adj Type	RefID	
2017	Other	0	10	0	10	0.0	1-Sided Adj	SYCHANG20170309163000560	
Explanation:		Anticipated increase in employee travel expenses							
2017 Total		0	10	0	10	0.0			
2018	Other	0	10	0	10	0.0	1-Sided Adj	SYCHANG20170309163029650	
Explanation:		Anticipated increase in employee travel expenses							
2018 Total		0	10	0	10	0.0			
2019	Other	0	10	0	10	0.0	1-Sided Adj	SYCHANG20170309163106640	
Explanation:		Anticipated increase in employee travel expenses							
2019 Total		0	10	0	10	0.0			

Note: Totals may include rounding differences.

Southern California Gas Company
2019 GRC - APP
Shared Services Workpapers

Area: CS - TECHNOLOGIES, POLICIES & SOLUTIONS
 Witness: Lisa M. Larroque Alexander
 Category: A. Policy and Environmental Solutions USS
 Category-Sub: 1. Public Policy and Environmental Solutions USS
 Cost Center: 2200-2505.000 - PLANNING & LEGISLATIVE ANALYSIS

Determination of Adjusted-Recorded (Incurred Costs):

	2012 (\$000)	2013 (\$000)	2014 (\$000)	2015 (\$000)	2016 (\$000)
Recorded (Nominal \$)*					
Labor	0	0	231	175	0
Non-Labor	0	0	0	25	0
NSE	0	0	0	0	0
Total	0	0	231	200	0
FTE	0.0	0.0	1.8	1.3	0.0
Adjustments (Nominal \$) **					
Labor	0	0	-1	30	176
Non-Labor	0	0	0	8	5
NSE	0	0	0	0	0
Total	0	0	-1	38	181
FTE	0.0	0.0	0.0	0.3	1.7
Recorded-Adjusted (Nominal \$)					
Labor	0	0	231	205	176
Non-Labor	0	0	0	33	5
NSE	0	0	0	0	0
Total	0	0	231	238	181
FTE	0.0	0.0	1.8	1.6	1.7
Vacation & Sick (Nominal \$)					
Labor	0	0	38	33	29
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	0	0	38	33	29
FTE	0.0	0.0	0.3	0.3	0.3
Escalation to 2016\$					
Labor	0	0	6	3	0
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	0	0	6	3	0
FTE	0.0	0.0	0.0	0.0	0.0
Recorded-Adjusted (Constant 2016\$)					
Labor	0	0	274	242	205
Non-Labor	0	0	0	33	5
NSE	0	0	0	0	0
Total	0	0	274	275	210
FTE	0.0	0.0	2.1	1.9	2.0

* After company-wide exclusions of Non-GRC costs

** Refer to "Detail of Adjustments to Recorded" page for line item adjustments

Note: Totals may include rounding differences.

Southern California Gas Company
2019 GRC - APP
Shared Services Workpapers

Area: CS - TECHNOLOGIES, POLICIES & SOLUTIONS
 Witness: Lisa M. Larroque Alexander
 Category: A. Policy and Environmental Solutions USS
 Category-Sub: 1. Public Policy and Environmental Solutions USS
 Cost Center: 2200-2505.000 - PLANNING & LEGISLATIVE ANALYSIS

Summary of Adjustments to Recorded:

In Nominal \$ (000) Incurred Costs					
Years	2012	2013	2014	2015	2016
Labor	0	0	-0.692	30	176
Non-Labor	0	0	0	8	5
NSE	0	0	0	0	0
Total	0	0	-0.692	38	181
FTE	0.0	0.0	0.0	0.3	1.7

Detail of Adjustments to Recorded:

Year	Adj Group	Labor	NLbr	NSE	FTE	Adj Type	RefID
2012 Total		0	0	0	0.0		
2013 Total		0	0	0	0.0		
2014	Other	-1	0	0	0.0	1-Sided Adj	EPANAMEN20161116152629027
Explanation:		Remove costs related to lobbying.					
2014 Total		-1	0	0	0.0		
2015	Other	-1	-1	0	0.0	1-Sided Adj	EPANAMEN20161116152721040
Explanation:		Remove costs related to lobbying.					
2015	Other	31	9	0	0.3	CCTR Transf From 2200-2504.000	EPANAMEN20161113224303310
Explanation:		Transfer labor Full-Time Equivalent (FTE) and non-labor costs from Utility Shared Service (USS) cost center 2200-2504 Public Policy & Planning to cost center 2200-2505 Public Policy to align functions where they reside and will be forecast.					
2015 Total		30	8	0	0.3		
2016	Other	182	5	0	1.7	CCTR Transf From 2200-2504.000	EPANAMEN20170226214422033
Explanation:		Transfer labor Full-Time Equivalent (FTE) and non-labor costs from Utility Shared Service (USS) cost center 2200-2504 Public Policy & Planning to cost center 2200-2505 Public Policy to align functions where they reside and will be forecast.					
2016	Other	-6	0	0	0.0	1-Sided Adj	EPANAMEN20170225012031740
Explanation:		Remove costs related to lobbying.					

Note: Totals may include rounding differences.

Southern California Gas Company
2019 GRC - APP
Shared Services Workpapers

Area: CS - TECHNOLOGIES, POLICIES & SOLUTIONS
Witness: Lisa M. Larroque Alexander
Category: A. Policy and Environmental Solutions USS
Category-Sub: 1. Public Policy and Environmental Solutions USS
Cost Center: 2200-2505.000 - PLANNING & LEGISLATIVE ANALYSIS

<u>Year</u>	<u>Adj Group</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>FTE</u>	<u>Adj Type</u>	<u>RefID</u>
2016 Total		176	5	0	1.7		

Note: Totals may include rounding differences.

Southern California Gas Company
2019 GRC - APP
Shared Services Workpapers

Area: CS - TECHNOLOGIES, POLICIES & SOLUTIONS
 Witness: Lisa M. Larroque Alexander
 Category: B. Business Strategy and Development
 Cost Center: 2200-2229.000

Summary for Category: B. Business Strategy and Development

	In 2016\$ (000) Incurred Costs			
	Adjusted-Recorded	Adjusted-Forecast		
	2016	2017	2018	2019
Labor	580	782	807	807
Non-Labor	610	698	693	693
NSE	0	0	0	0
Total	<u>1,190</u>	<u>1,480</u>	<u>1,500</u>	<u>1,500</u>
FTE	4.4	6.2	6.4	6.4

Cost Centers belonging to this Category:

2200-2229.000 BUSINESS STRATEGY AND DEVELOPMENT

Labor	580	782	807	807
Non-Labor	610	698	693	693
NSE	0	0	0	0
Total	<u>1,190</u>	<u>1,480</u>	<u>1,500</u>	<u>1,500</u>
FTE	4.4	6.2	6.4	6.4

Note: Totals may include rounding differences.

Beginning of Workpaper
2200-2229.000 - BUSINESS STRATEGY AND DEVELOPMENT

Southern California Gas Company
2019 GRC - APP
Shared Services Workpapers

Area: CS - TECHNOLOGIES, POLICIES & SOLUTIONS
 Witness: Lisa M. Larroque Alexander
 Category: B. Business Strategy and Development
 Category-Sub: 1. Business Strategy and Development
 Cost Center: 2200-2229.000 - BUSINESS STRATEGY AND DEVELOPMENT

Activity Description:

The purpose of the Business Strategy and Development group is to provide analytical and execution support for initiatives in major strategic priority areas such as operational excellence, development and deployment of clean energy solutions for customers, and advocacy for sensible policies and regulations that support ratepayer interests and advance Commission policy. The group also coordinates long-range planning activities. Other responsibilities of this group include performing research and analysis on variety of issues as business need arises.

Forecast Explanations:

Labor - 5-YR Average

The 5 year average best reflects activity levels necessary to support the requirements in this functional area inclusive of incremental resource requirements.

Non-Labor - 5-YR Average

The 5 year average best reflects activity levels necessary to support the requirements in this functional area.

NSE - 5-YR Average

Not Applicable

Summary of Results:

		In 2016\$ (000) Incurred Costs								
		Adjusted-Recorded					Adjusted-Forecast			
Years		2012	2013	2014	2015	2016	2017	2018	2019	
Labor		659	717	696	758	580	781	806	806	
Non-Labor		668	555	699	882	610	698	693	693	
NSE		0	0	0	0	0	0	0	0	
Total		1,326	1,273	1,394	1,640	1,190	1,479	1,499	1,499	
FTE		5.2	5.7	5.3	6.1	4.4	6.2	6.4	6.4	

Note: Totals may include rounding differences.

Southern California Gas Company
2019 GRC - APP
Shared Services Workpapers

Area: CS - TECHNOLOGIES, POLICIES & SOLUTIONS
 Witness: Lisa M. Larroque Alexander
 Category: B. Business Strategy and Development
 Category-Sub: 1. Business Strategy and Development
 Cost Center: 2200-2229.000 - BUSINESS STRATEGY AND DEVELOPMENT

Cost Center Allocations (Incurred Costs):

	2016 Adjusted-Recorded					2017 Adjusted-Forecast				
	Labor	Non-Labor	NSE	Total	FTE	Labor	Non-Labor	NSE	Total	FTE
Directly Retained	123	262	0	385	0.9	24	232	0	256	0.2
Directly Allocated	0	0	0	0	0.0	0	0	0	0	0.0
Subj. To % Alloc.	457	348	0	805	3.5	757	466	0	1,223	6.0
Total Incurred	580	610	0	1,190	4.4	781	698	0	1,479	6.2
% Allocation										
Retained	85.91%	85.91%				85.91%	85.91%			
SEU	14.09%	14.09%				14.09%	14.09%			
CORP	0.00%	0.00%				0.00%	0.00%			
Unreg	0.00%	0.00%				0.00%	0.00%			

	2018 Adjusted-Forecast					2019 Adjusted-Forecast				
	Labor	Non-Labor	NSE	Total	FTE	Labor	Non-Labor	NSE	Total	FTE
Directly Retained	24	232	0	256	0.2	24	232	0	256	0.2
Directly Allocated	0	0	0	0	0.0	0	0	0	0	0.0
Subj. To % Alloc.	782	461	0	1,243	6.2	782	461	0	1,243	6.2
Total Incurred	806	693	0	1,499	6.4	806	693	0	1,499	6.4
% Allocation										
Retained	85.91%	85.91%				85.91%	85.91%			
SEU	14.09%	14.09%				14.09%	14.09%			
CORP	0.00%	0.00%				0.00%	0.00%			
Unreg	0.00%	0.00%				0.00%	0.00%			

Cost Center Allocation Percentage Drivers/Methodology:

Cost Center Allocation Percentage for 2016

Allocated based on revenue shares for the gas operations of SoCalGas and SDG&E, which is the best proxy for the joint benefit of analysis and development tasks.

Cost Center Allocation Percentage for 2017

Allocated based on revenue shares for the gas operations of SoCalGas and SDG&E, which is the best proxy for the joint benefit of analysis and development tasks.

Cost Center Allocation Percentage for 2018

Allocated based on revenue shares for the gas operations of SoCalGas and SDG&E, which is the best proxy for the joint benefit of analysis and development tasks.

Cost Center Allocation Percentage for 2019

Allocated based on revenue shares for the gas operations of SoCalGas and SDG&E, which is the best proxy for the joint benefit of analysis and development tasks.

Note: Totals may include rounding differences.

Southern California Gas Company
2019 GRC - APP
Shared Services Workpapers

Area: CS - TECHNOLOGIES, POLICIES & SOLUTIONS
 Witness: Lisa M. Larroque Alexander
 Category: B. Business Strategy and Development
 Category-Sub: 1. Business Strategy and Development
 Cost Center: 2200-2229.000 - BUSINESS STRATEGY AND DEVELOPMENT

Summary of Adjustments to Forecast:

In 2016 \$(000) Incurred Costs										
Forecast Method		Base Forecast			Forecast Adjustments			Adjusted-Forecast		
Years		2017	2018	2019	2017	2018	2019	2017	2018	2019
Labor	5-YR Average	682	682	682	100	125	125	782	807	807
Non-Labor	5-YR Average	683	683	683	15	10	10	698	693	693
NSE	5-YR Average	0	0	0	0	0	0	0	0	0
Total		1,365	1,365	1,365	115	135	135	1,480	1,500	1,500
FTE	5-YR Average	5.4	5.4	5.4	0.8	1.0	1.0	6.2	6.4	6.4

Forecast Adjustment Details:

Year	Adj Group	Labor	NLbr	NSE	Total	FTE	Adj Type	RefID	
2017	Other	100	15	0	115	0.8	1-Sided Adj	SYCHANG20161203231437553	
Explanation:		Backfill of a vacancy created in 2016. Cost is based on mid point of payband for PM III. Expect to backfill the vacancy in April 2017.							
		Laptops, employee training, office supplies, travel expenses, and etc. (First year cost is \$15K and on-going cost is \$10K)							
2017 Total		100	15	0	115	0.8			
2018	Other	125	10	0	135	1.0	1-Sided Adj	SYCHANG20161203231516677	
Explanation:		Backfill of a vacancy in 2016. Cost is based on mid point of payband for PM III.							
		Employee training, office supplies, travel expenses, and etc. (First year cost is \$15K and on-going cost is \$10K)							
2018 Total		125	10	0	135	1.0			
2019	Other	125	10	0	135	1.0	1-Sided Adj	SYCHANG20161203231550443	
Explanation:		Backfill of a vacancy created in 2016. Cost is based on mid-point of payband for PM III.							
		Employee training, office supplies, travel expenses, and etc. (First year cost is \$15K and on-going cost is \$10K)							
2019 Total		125	10	0	135	1.0			

Note: Totals may include rounding differences.

Southern California Gas Company
2019 GRC - APP
Shared Services Workpapers

Area: CS - TECHNOLOGIES, POLICIES & SOLUTIONS
 Witness: Lisa M. Larroque Alexander
 Category: B. Business Strategy and Development
 Category-Sub: 1. Business Strategy and Development
 Cost Center: 2200-2229.000 - BUSINESS STRATEGY AND DEVELOPMENT

Determination of Adjusted-Recorded (Incurred Costs):

	2012 (\$000)	2013 (\$000)	2014 (\$000)	2015 (\$000)	2016 (\$000)
Recorded (Nominal \$)*					
Labor	303	369	202	343	431
Non-Labor	269	283	359	771	576
NSE	0	0	0	0	0
Total	572	652	560	1,113	1,007
FTE	2.6	3.4	1.7	3.3	3.7
Adjustments (Nominal \$) **					
Labor	236	224	384	303	67
Non-Labor	361	251	325	100	34
NSE	0	0	0	0	0
Total	597	475	709	403	100
FTE	1.9	1.5	2.8	1.9	0.0
Recorded-Adjusted (Nominal \$)					
Labor	539	593	586	645	498
Non-Labor	630	534	684	871	610
NSE	0	0	0	0	0
Total	1,169	1,127	1,269	1,516	1,108
FTE	4.5	4.9	4.5	5.2	3.7
Vacation & Sick (Nominal \$)					
Labor	83	97	95	103	82
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	83	97	95	103	82
FTE	0.7	0.8	0.8	0.9	0.6
Escalation to 2016\$					
Labor	37	28	15	9	0
Non-Labor	38	21	15	11	0
NSE	0	0	0	0	0
Total	75	49	30	20	0
FTE	0.0	0.0	0.0	0.0	0.0
Recorded-Adjusted (Constant 2016\$)					
Labor	659	717	696	758	580
Non-Labor	668	555	699	882	610
NSE	0	0	0	0	0
Total	1,326	1,273	1,394	1,640	1,190
FTE	5.2	5.7	5.3	6.1	4.3

* After company-wide exclusions of Non-GRC costs

** Refer to "Detail of Adjustments to Recorded" page for line item adjustments

Note: Totals may include rounding differences.

Southern California Gas Company
2019 GRC - APP
Shared Services Workpapers

Area: CS - TECHNOLOGIES, POLICIES & SOLUTIONS
 Witness: Lisa M. Larroque Alexander
 Category: B. Business Strategy and Development
 Category-Sub: 1. Business Strategy and Development
 Cost Center: 2200-2229.000 - BUSINESS STRATEGY AND DEVELOPMENT

Summary of Adjustments to Recorded:

In Nominal \$ (000) Incurred Costs					
Years	2012	2013	2014	2015	2016
Labor	236	224	384	303	67
Non-Labor	361	251	325	100	34
NSE	0	0	0	0	0
Total	597	475	709	403	100
FTE	1.9	1.5	2.8	1.9	0.0

Detail of Adjustments to Recorded:

Year	Adj Group	Labor	NLbr	NSE	FTE	Adj Type	RefID
2012	Other	237	22	0	1.9	CCTR Transf From 2100-3434.000	CSCHRAMM20170223152001703
Explanation: Transfer labor/FTE and non-labor costs associated with the Director and Admin. Asst. from SDG&E Utility Shared Service (USS) cost center 2100-3434 Business Strategy and Development to SoCalGas USS cost center 2200-2229 Business Analysis and Growth Initiative to align costs where function resides.							
2012	Other	0	0	0	0.0	CCTR Transf From 2100-3434.000	CSCHRAMM20170223152150693
Explanation: Transfer non-labor costs associated with the Director and Admin. Asst. from SDG&E Utility Shared Service (USS) cost center 2100-3434 Business Strategy and Development to SoCalGas USS cost center 2200-2229 Business Analysis and Growth Initiative to align costs where function resides.							
2012	Other	0	-28	0	0.0	SSD_Type Transf FROM CC_Subj	SYCHANG20161017132339007
Explanation: Secondary transfer from SDG&E 2100-3434 to from Subject to % allocation" to "Internal Order Directly Retained"							
2012	Other	0	28	0	0.0	SSD_Type Transf TO IO_Ret	SYCHANG20161017132339007
Explanation: Secondary transfer from SDG&E 2100-3434 to from Subject to % allocation" to "Internal Order Directly Retained"							
2012	Other	0	8	0	0.0	CCTR Transf From 2200-2190.000	SYCHANG20161106110846353
Explanation: Transfer non-labor costs associated with Strategic Project Manager roles from Utility Shared Service (USS) cost center 2200-2190 Planning & Development to USS cost center 2200-2229 Growth Initiative to align functions where they reside and will be forecast.							
2012	Other	0	28	0	0.0	CCTR Transf From 2100-3434.000	CSCHRAMM20161017131603300
Explanation: Transfer SoCalGas Growth Initiative non-labor costs associated with subscription of Wood Mackenzie from SDG&E USS cost center 2100-3434 Business Strategy and Development to SoCalGas USS cost center 2200-2229 Business Analysis and Growth Initiative to align cost where activity/function resides.							
2012	Other	0	0	0	0.0	CCTR Transf From 2100-3434.000	CSCHRAMM20170222165757507

Note: Totals may include rounding differences.

Southern California Gas Company
2019 GRC - APP
Shared Services Workpapers

Area: CS - TECHNOLOGIES, POLICIES & SOLUTIONS
 Witness: Lisa M. Larroque Alexander
 Category: B. Business Strategy and Development
 Category-Sub: 1. Business Strategy and Development
 Cost Center: 2200-2229.000 - BUSINESS STRATEGY AND DEVELOPMENT

<u>Year</u>	<u>Adj Group</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>FTE</u>	<u>Adj Type</u>	<u>RefID</u>
Explanation: Transfer labor and FTE associated with the Director from SDG&E USS cost center 2100-3434 Business Strategy and Development to SoCalGas USS cost center 2200-2229 Business Analysis and Growth Initiative to align costs where function resides.							
2012	Other	7	248	0	0.1	CCTR Transf From 2200-2190.000	SYCHANG20161106111426540
Explanation: Transfer labor Full-Time Equivalent (FTE) and non-labor costs associated with Strategic Project Manager roles from USS cost center 2200-2190 Planning & Development to Utility Shared Service (USS) cost center 2200-2229 Growth Initiative to align functions where they reside and will be forecasted.							
2012	Other	0	0	0	0.0	1-Sided Adj	SYCHANG20161106120518107
Explanation: Pursuant to CPUC decision 12-12-037 Compression Service Tariff activities are excluded from base rates.							
2012	Other	0	56	0	0.0	CCTR Transf From 2200-2059.000	SYCHANG20161113112419900
Explanation: Transfer non-labor costs associated with RD&D activities from 2200-2059.000 to 2200-2229 to align costs where function resides.							
2012	Other	-8	0	0	-0.1	CCTR Transf To 2200-2489.000	SYCHANG20161202152500660
Explanation: Transfer labor FTE and non-labor costs associated with planner role to Utility Shared Service (USS) CC 2200-2489 Client Suppor to align functions where they reside and will be forecasted							
2012 Total		236	361	0	1.9		
2013	Other	0	4	0	0.0	CCTR Transf From 2200-2190.000	SYCHANG20161106112810783
Explanation: Transfer non-labor costs associated with Strategic Project Manager roles from USS cost center 2200-2190 Planning & Development to USS cost center 2200-2229 Growth Initiative to align functions where they reside and will be forecasted.							
2013	Other	0	7	0	0.0	CCTR Transf From 2200-2190.000	SYCHANG20161106113009857
Explanation: Transfer non-labor costs associated with Strategic Project Manager roles from USS cost center 2200-2190 Planning & Development to USS cost center 2200-2229 Growth Initiative to align functions where they reside and will be forecasted.							
2013	Other	224	24	0	1.5	CCTR Transf From 2100-3434.000	CSCHRAMM20170223152444417
Explanation: Transfer labor/FTE and non-labor costs associated with the Director and Admin Asst from SDG&E USS cost center 2100-3434 Business Strategy and Development to SoCalGas USS cost center 2200-2229 Business Analysis and Growth Initiative to align costs where function resides.							
2013	Other	0	1	0	0.0	CCTR Transf From 2100-3434.000	CSCHRAMM20170223152657480
Explanation: Transfer non-labor costs associated with the Director and Admin Asst from SDG&E USS cost center 2100-3434 Business Strategy and Development to SoCalGas USS cost center 2200-2229 Business Analysis and Growth Initiative to align costs where function resides.							

Note: Totals may include rounding differences.

Southern California Gas Company
2019 GRC - APP
Shared Services Workpapers

Area: CS - TECHNOLOGIES, POLICIES & SOLUTIONS
 Witness: Lisa M. Larroque Alexander
 Category: B. Business Strategy and Development
 Category-Sub: 1. Business Strategy and Development
 Cost Center: 2200-2229.000 - BUSINESS STRATEGY AND DEVELOPMENT

<u>Year</u>	<u>Adj Group</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>FTE</u>	<u>Adj Type</u>	<u>RefID</u>
2013	Other	0	93	0	0.0	CCTR Transf From 2200-2059.000	SYCHANG20161113113137447
Explanation: Transfer non-labor costs associated with RD&D activities from 2200-2059.000 to 2200-2229 to align costs where function resides.							
2013	Other	34	122	0	0.4	CCTR Transf From 2200-2190.000	SYCHANG20161106113117440
Explanation: Transfer labor FTE and non-labor costs associated with Strategic Project Manager roles from USS cost center 2200-2190 Planning & Development to USS cost center 2200-2229 Growth Initiative to align functions where they reside and will be forecasted.							
2013	Other	-34	0	0	-0.4	CCTR Transf To 2200-2489.000	SYCHANG20161202150654547
Explanation: Transfer labor FTE and non-labor costs associated with planner role to USS cost center 2200-2489 Client Support - SS to align functions where they reside and will be forecasted.							
2013 Total		224	251	0	1.5		
2014	Other	220	31	0	1.3	CCTR Transf From 2100-3434.000	CSCHRAMM20170223152833853
Explanation: Transfer labor/FTE and non-labor costs associated with the Director and Admin Asst from SDG&E USS cost center 2100-3434 Business Strategy and Development to SoCalGas USS cost center 2200-2229 Business Analysis and Growth Initiative to align costs where function resides.							
2014	Other	0	0	0	0.0	CCTR Transf From 2100-3434.000	CSCHRAMM20170223152912573
Explanation: Transfer non-labor costs associated with the Director and Admin Asst from SDG&E USS cost center 2100-3434 Business Strategy and Development to SoCalGas USS cost center 2200-2229 Business Analysis and Growth Initiative to align costs where function resides.							
2014	Other	0	10	0	0.0	CCTR Transf From 2200-2190.000	SYCHANG20161106113251820
Explanation: Transfer non-labor costs associated with Strategic Project Manager roles from USS cost center 2200-2190 Planning & Development to USS cost center 2200-2229 Growth Initiative to align functions where they reside and will be forecasted.							
2014	Other	0	-1	0	0.0	CCTR Transf From 2200-2525.000	SYCHANG20161106114123247
Explanation: CC 2200-2525 was retired in 2016. Per discussion with the CC owner, transfer FTE and non-labor costs to the USS cost center 2200-2229 to align functions.							
2014	Other	164	317	0	1.5	CCTR Transf From 2200-2525.000	SYCHANG20161106114310467
Explanation: Cost center 2200-2525 was retired in 2016. Per discussion with the cost center owner, transfer FTE and non-labor costs to the USS cost center 2200-2229 to align functions.							
2014	Other	0	4	0	0.0	CCTR Transf From 2200-2059.000	SYCHANG20161113113758700
Explanation: Transfer non-labor costs from 2200-2059.000 cost center to USS cost center 2200-2229 to align functions where they reside and will be forecasted.							

Note: Totals may include rounding differences.

Southern California Gas Company
2019 GRC - APP
Shared Services Workpapers

Area: CS - TECHNOLOGIES, POLICIES & SOLUTIONS
 Witness: Lisa M. Larroque Alexander
 Category: B. Business Strategy and Development
 Category-Sub: 1. Business Strategy and Development
 Cost Center: 2200-2229.000 - BUSINESS STRATEGY AND DEVELOPMENT

<u>Year</u>	<u>Adj Group</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>FTE</u>	<u>Adj Type</u>	<u>RefID</u>
2014	Other	0	-36	0	0.0	1-Sided Adj	SYCHANG20161106121046750
Explanation: Distributed Energy Resource (DER) activities are removed since the program is shareholder funded.							
2014 Total		384	325	0	2.8		
2015	Other	0	17	0	0.0	CCTR Transf From 2200-2525.000	SYCHANG20161106114521560
Explanation: CC 2200-2525 was retired in 2016. Per discussion with the CC owner, transfer FTE and non-labor costs to the USS cost center 2200-2229 to align functions.							
2015	Other	85	3	0	0.8	CCTR Transf From 2200-2525.000	SYCHANG20161106114613450
Explanation: CC 2200-2525 was retired in 2016. Per discussion with the CC owner, transfer FTE and non-labor costs to the USS cost center 2200-2229 to align functions.							
2015	Other	13	2	0	0.1	CCTR Transf From 2200-2524.000	SYCHANG20161106115608593
Explanation: Transfer FTE and non-labor costs associated with Project Manager roles from NSS cost center 2200-2524 to USS cost center 2200-2229 Growth Initiative to align functions where they reside and will be forecasted.							
2015	Other	0	1	0	0.0	CCTR Transf From 2100-3434.000	CSCHRAMM20170223153656203
Explanation: Transfer labor costs associated with the Director from SDG&E USS cost center 2100-3434 Business Strategy and Development to SoCalGas USS cost center 2200-2229 Business Analysis and Growth Initiative to align costs where function resides.							
2015	Other	204	28	0	1.0	CCTR Transf From 2100-3434.000	CSCHRAMM20170223153826280
Explanation: Transfer labor/FTE and non-labor costs associated with the Director from SDG&E USS cost center 2100-3434 Business Strategy and Development to SoCalGas USS cost center 2200-2229 Business Analysis and Growth Initiative to align costs where function resides.							
2015	Other	0	50	0	0.0	CCTR Transf From 2200-2563.000	TPRER20161021112834953
Explanation: Tsfr costs from 2HR001 2200-2563 (Strategic Initiative) 300771547 Low Carbon Power Resource to cost center 2200-2229							
2015 Total		303	100	0	1.9		
2016	Aliso	-95	-1	0	-0.8	1-Sided Adj	SYCHANG20170222150853813
Explanation: Aliso Canyon Incident - Exclude costs & associated FTEs. 300775156, Wellhead Leak							
2016	Other	0	0	0	0.0	CCTR Transf From 2100-3434.000	CSCHRAMM20170223154909763
Explanation: Transfer non-labor costs associated with the Director from SDG&E USS cost center 2100-3434 Business Strategy and Development to SoCalGas USS cost center 2200-2229 Business Analysis and Growth Initiative to align costs where function resides.							

Note: Totals may include rounding differences.

Southern California Gas Company
2019 GRC - APP
Shared Services Workpapers

Area: CS - TECHNOLOGIES, POLICIES & SOLUTIONS
 Witness: Lisa M. Larroque Alexander
 Category: B. Business Strategy and Development
 Category-Sub: 1. Business Strategy and Development
 Cost Center: 2200-2229.000 - BUSINESS STRATEGY AND DEVELOPMENT

<u>Year</u>	<u>Adj Group</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>FTE</u>	<u>Adj Type</u>	<u>RefID</u>
2016	Other	162	34	0	0.8	CCTR Transf From 2100-3434.000	CSCHRAMM20170223154949257
Explanation: Transfer labor/FTE and non-labor costs associated with the Director from SDG&E USS cost center 2100-3434 Business Strategy and Development to SoCalGas USS cost center 2200-2229 Business Analysis and Growth Initiative to align costs where function resides.							
2016	Other	41	5	0	0.2	CCTR Transf From 2100-3434.000	CSCHRAMM20170224080759873
Explanation: Transfer labor/FTE and non-labor costs associated with Aliso Canyon ref. IO 7082025 from SDG&E USS cost center 2100-3434 Business Strategy and Development to SoCalGas USS cost center 2200-2229 Business Analysis and Growth Initiative to align costs where function resides. SoCalGas USS cost center 2200-2229 will enter an adjustment to remove costs from 2016 as they are related to Aliso Canyon.							
2016	Aliso	-41	-5	0	-0.2	1-Sided Adj	SYCHANG20170224170551783
Explanation: This represents transfer of labor and non-labor costs associated with the Director (originally charged to SDG&E IO 7082025 SCG BUSINESS STRATEGY & DEV.ALISO CANYON) from SDG&E USS cost center 2100-3434 to SCG cost center 2200-2229 to align costs where function resides. This cost was excluded since relates to ALISO Canyon Incident - Exclude costs & associated FTEs.							
2016 Total		67	34	0	0.0		

Note: Totals may include rounding differences.

Southern California Gas Company
2019 GRC - APP
Non-Shared Service Workpapers

Area: CS - TECHNOLOGIES, POLICIES & SOLUTIONS
Witness: Lisa M. Larroque Alexander

Appendix A: List of Non-Shared Cost Centers

Cost Center	Sub	Description
2200-2480	000	PUBLIC POLICY & PLANNING